

# OTR 700

## Touchscreen OTDR

### Optical Time Domain Reflectometer

The ODM OTR 700 gives test technicians and contractors all the tools necessary for testing optical reflection and loss in fiber networks. A wide variety of possible wavelength configurations and hardware options makes this OTDR an all-in-one test solution for fiber characterization.

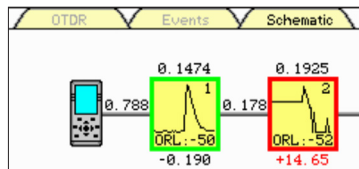
The OTR 700 boasts 3 customizable ports for hardware components. Choose a standard configuration of 1 laser/LED output and a probe input, or add a power meter and/or VFL red laser to increase the functionality of the unit.

This OTDR offers an event table with PASS/FAIL analysis for each reflective event, and the 1 meter dead zone provides accurate reflective event testing in even the shortest fiber systems. Each event can be inspected manually using the event selection feature or automatically with the device's built-in PASS/FAIL function. The OTR 700's schematic trace view allows technicians to see just the most important parts of each trace with pertinent data attached.



## Features

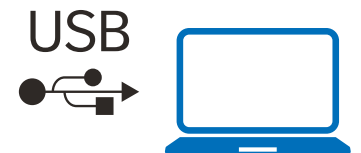
- Event table with PASS/FAIL analysis
- Bi-directional averaging - unit performs all necessary calculations automatically
- Short event dead zone - ideal for short-link installations
- Schematic view of fiber link for quick and simple trace analysis
- Touchscreen interface allows fine-tuning of cursor position and fast parameter switching
- Optionally add inspection probe, power meter, and/or VFL



#	P	FT	SPLICE	2POINT	DB/KF	TYPE
3	P	230.73	+0.095	0.375	+2.955	-47.6
4	P	244.97	+0.016	4.129	-NA-	-60.5
5	P	310.72	+0.400	0.353	-NA-	-55.1
6	P	322.86	+0.282	0.947	-NA-	-54.5
7	P	473.20	+0.213	0.408	-3.181	-51.0

Schematic View of fiber link provides a PASS/FAIL interface that simplifies fiber traces for troubleshooting and reporting.

Event table view summarizes specific data points at events for more in-depth troubleshooting.



Factory-configurable top panel provides space for laser/LED ports, VFL, OPM, and video scope port.

Transfer trace files from OTR 700 to Windows computer for file editing/report creation with ODM's free OpTrace software.

# Specifications

OTDR	
Wavelengths	User-Specified (See Ordering Information)
Dynamic Range	27/26dB MM   36/35dB SM
Pulse Width	5 - 20,000ns
Units of Measurement	km, kf, mi
Event Dead Zone	1m
Attenuation Dead Zone	4m
Resolution	0.125m - 32m
Distance Uncertainty	± 0.75 + 0.005% x distance + sampling resolution
Distance Range	0.5km-64km MM   0.5km-256km SM
Real-Time Refresh Rate	2 Hz
Group Index of Refraction (GIR)	1.024 - 2.048
Linearity	± 0.05 dB/dB
Memory Capacity	1000 traces
Memory Type	Internal

Power Supply/Charger	Universal/Interchangeable
Battery Life	6 Hours
Storage Temperature	-20 to 60C
Operating Temperature	-10 to 50C
Dimensions (Without Boot)	7.75" x 4.5" x 2.25" (197mm x 114mm x 57mm)
Weight	2.0 lbs
Output Connectors	Interchangeable FC, ST, SC (all included)

## Ordering Information

PART NO.	WAVELENGTHS	SPECIAL FEATURES / NOTES	DESCRIPTION
OTR 700-S	1310nm & 1550nm	Probe port included. Add -P to product name (OTR 700-S-P) to add inspection probe. Add -PM to product name to add OPM. Add -V to product name to add VFL.	Touchscreen OTDR for SM applications.
OTR 700-M	850nm & 1300nm	Probe port included. Add -P to product name (OTR 700-S-P) to add inspection probe. Add -PM to product name to add OPM. Add -V to product name to add VFL.	Touchscreen OTDR for MM applications
OTR 700-Q	850nm & 1300nm (MM) 1310nm & 1550nm (SM)	SM and MM combo unit. Probe port included. Add -P to product name (OTR 700-Q-P) to add inspection probe. Add -PM to product name to add OPM. Add -V to product name to add VFL.	Touchscreen OTDR for SM and MM applications.
OTR 700-S3	1310nm & 1490nm & 1550nm	3 SM wavelength unit.	Touchscreen OTDR for SM applications.
OTR 700-PON	1310nm & 1550nm & 1625nm	Adds 1625nm port (1650 also available) with filter to be used on active fiber systems.	Touchscreen OTDR for SM applications. With 1625nm filtered port for active fiber.

Custom wavelength configurations are available as well. Contact ODM to discuss additional or special options.

### Inspection Tip Adapters

PART NO.	DESCRIPTION
AC 040B	SC Adapter
AC 041B	SC / APC Adapter
AC 109B	SC 60-Degree Angle Adapter
AC 042B	FC Adapter
AC 043B	FC/APC Adapter
AC 104B	FC, 60° Angle Adapter
AC 044B	LC Adapter
AC 045B	LC/APC Adapter
AC 107B	LC, 60° Angle Adapter
AC 051B	OptiTap Adapter
AC 046B	ST Adapter
AC 047B	MTP/APC Adapter
AC 050B	MTP/MPO Straight Adapter
AC 048B	1.25mm Universal Adapter
AC 049B	2.5mm Universal Adapter
AC 114B	1.25mm Universal HR Adapter
AC 115B	2.5mm Universal APC Adapter
AC 116B	1.25mm Universal APC Adapter

### Launch Cables/Accessories

PART NO.	DESCRIPTION
AC 490	SM FC-LC 150 meters
AC 495	MM FC-LC 150 meters
AC 513	SM LC-LC 20 meters
AC 514	SM FC-LC 20 meters
AC 630	Non-reflective Terminator - LC UPC
AC 160	SC Launch Adapter
AC 161	ST Launch Adapter
AC 162	FC Launch Adapter

### Cleaning Tools

PART NO.	DESCRIPTION
AC 089	One-Click Cleaner for 1.25mm & ODC Ferrules / Bulkheads
AC 099	One-Click Cleaner for 2.5mm Ferrules / Bulkheads
AC 090	1.25mm Swabs (100 per Pack)
AC 091	2.5mm Swabs (100 per Pack)
AC 092	SqR Pad & Fiber Wash Pen
AC 190	CletoP Cleaner - Type B - Blue Tape

M-DS008-03 OTR 700

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